

Name _____

Factors Affecting Rate of Photosynthesis Pre-lab

In this lab, you are going to use the knowledge you have gained about photosynthesis to design and carry out a procedure to further investigate that process.

1. Start by writing the equation for photosynthesis:

_____ + _____ + _____ → _____ + _____

Answer the following questions to help get you started. Use the equation you have written above to assist you.

2. What gas is used by a green plant during photosynthesis?
3. What gas is released during photosynthesis?
4. Is energy put into the reaction or released?
5. From where does this energy come?
6. What color(s) of light do plants absorb best?
7. What color(s) of light do plants reflect?
8. For what process other than photosynthesis do plants use the materials in the above equation?
9. When I breathed into the water, what gas did I add to the water?
10. What color did the water containing bromthymol blue turn when I breathed into the water?

